

What Is Claimed Is:

1. A valve for controlling a fluid, in particular for controlling a gas, encompassing a valve housing (13; 81) an actuation unit (88) for an at least locally tubular valve armature (17; 84) which is guided axially displaceably and is equipped with a valve closure member (22; 51; 61; 89) by which a fluid flow between an inflow side (11) and an outlet side (12) is controllable and which coacts with a valve seat (25; 91), wherein the valve armature (17; 84) includes a guidance collar (36; 95) in a region remote from the valve closure member (22; 51; 61; 89), and is equipped with a second guidance means (31; 52; 89) in a region offset with respect to the guidance collar (36; 95).
2. The valve as defined in Claim 1,
wherein the second guidance means (31; 52) is constituted by a leaf spring.
3. The valve as defined in Claim 2,
wherein the leaf spring (31; 52) is retained between the valve closure member (17) and the valve housing (13).
4. The valve as defined in Claim 2 or 3,
wherein the leaf spring (52) is disposed upstream from radial outlet orifices (28) of the valve armature (17).
5. The valve as defined in any of Claims 2 through 4,
wherein the leaf spring (31) is of annular configuration and has flow passages (32) for the fluid flow.
6. The valve as defined in Claim 1,
wherein the second guidance means (89) is constituted by the valve closure member.
7. The valve as defined in any of Claims 1 through 6,
wherein the valve armature (84) is guided in a deep drawn valve bushing (83) that is a constituent of the valve housing (81).
8. The valve as defined in any of Claims 1 through 7,
wherein the valve armature (17; 84) has a constriction (21; 93) in the region of the radial outlet orifices (28).

9. The valve as defined in any of Claims 1 through 8,
wherein a throttling element (34) that coacts with a preceding throttling space (33; 71)
is disposed downstream from the valve seat (25; 91).
10. The valve as defined in Claim 9,
wherein the valve seat (25; 91) has a flow-through cross section that corresponds to at
least two to three times the flow-through cross section of the throttling element (34).
11. The valve as defined in Claim 9 or 10,
wherein the flow-through cross section of the outlet orifice (28) corresponds to at least
a multiple of the flow-through cross section of the throttling element (34).
12. The valve as defined in any of Claims 9 through 11,
wherein a damping tube (27) is arranged downstream from the throttling element (34).
13. The valve as defined in Claim 12,
wherein the damping tube (27) has an inside diameter that corresponds to at least three
times the diameter of the throttling element (34).
14. The valve as defined in Claim 12 or 13,
wherein the damping tube (27) has a length that corresponds to at least ten times the
diameter of the throttling element (34).